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PRESSURE IONIZATION MASS SPECTROMETER (54) ATMOSPHERIC

(57) Abstract:

ionization mass spectrometer suited to perform mass spectrometry at a PROBLEM TO BE SOLVED: To provide an atmospheric pressure

high S/N ratio by effectively focusing ions of high three-dimensional angles, while reducing the spread of the kinetic energy of the ions which may result from worsening of a vacuum.

incident on a second electrode system electrode 43, 44, are accelerated, and and detected by a detector 8. Neutral The first electrode system comprises hemispherical grid electrodes 41, 42 source 3 are allowed to pass through atmospheric pressure ionization ion spectrometry part 6 via an inlet port 19, subjected to mass spectrometry, sampling bore 15b are blocked by a incident on a first electrode system. and works as a decelerating system for the ions. The ions are thereafter particles that passed through the SOLUTION: Ions ionized at an sampling pores 15a, (b) and is focused on a pore 21. The ions comprising hemispherical grid focused are guided to a mass screen 45 and therefore not introduced into the mass spectrometry part 6.

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